

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims:

1 - 38. (Cancelled)

39. (Currently Amended) An atherectomy device comprising:

a catheter having a proximal and a distal end and a lumen therebetween;

a support structure in the lumen adjacent the distal end;

~~[[one or more]]~~ at least two optical conduits in the catheter, each having a distal end supported by the support structure, wherein at least one optical conduit is connected to an optical imaging system for acquiring an image of the interior circumference of a vessel in which the device is located, and at least one optical conduit is connected to a remote optical laser energy source for conducting ablating laser energy to the distal end of the device;

one or more magnetic members disposed in the distal end of the catheter, whereby the distal end is oriented by the one or more magnetic members that align relative to the direction of an externally applied magnetic field;

wherein the one or more magnet members are positioned within the catheter and are rotatable within the catheter.

40. (Previously Presented) The device of claim 39, further comprising an ablation member at the catheter distal end.

41. (Previously Presented) The device of claim 40, wherein the one or more magnet members are comprised by the support structure.

42. (Previously Presented) The device of claim 41, wherein the support structure comprises a passage for a guidewire.

43 (Cancelled)

44. (Previously Presented) The device of claim 39 wherein at least one optical conduit comprises an optical fiber having a beveled distal end facing generally radially outwardly for imaging the vessel in which the device is located.